

Topic 7 - The Solar System Up Close

1. The Sun's energy is charged particles released in all directions. This solar wind bombards the Earth at 400km/s, but this protects us ...
 - A. **The Asteroid Belt**
 - B. **Earth's magnetic field**
 - C. **Earth's atmosphere**
 - D. **Axis and rotation of the Earth**

2. The formation of our solar system is based on the ...
 - A. **Big bang theory**
 - B. **Theory of relativity**
 - C. **protoplanet hypothesis**
 - D. **Law of Conservation of Mass**

3. On July 17, 1969 Neil Armstrong and Edwin Aldrin landed on the first other world to see up close, which was...
 - A. **Mars**
 - B. **An asteroid**
 - C. **The Moon**
 - D. **Venus**

4. The inner planets - Mercury, Venus, Mars and the Earth - because of their composition are considered to be ...
 - A. **terrestrial**
 - B. **gaseous**
 - C. **friendly**
 - D. **unfriendly**

5. Unmanned, remote-controlled observation equipment is sent out into space to explore distant areas of our solar system. These artificial satellites are called ...
 - A. **searchers**
 - B. **observers**
 - C. **explorers**
 - D. **probes**

6. The astronomical unit is used for measuring 'local' distances in the solar system. It is equal to the distance from the center of the Sun to the ...
 - A. **first planet**
 - B. **next galaxy**
 - C. **center of the Earth**
 - D. **end of the solar system**

7. In the 1920's, Ejnar Hertzsprung and Henry Norris Russell compared the surface temperature of stars with its luminosity. They graphed their data to show the relationship between ...
 - A. **color and intensity**
 - B. **heat and temperature**
 - C. **temperature and age**
 - D. **brightness and temperature**

8. The process of 'star-building' which releases great amounts of energy and radiation is known as ...
 - A. **fusion**
 - B. **fission**
 - C. **mitosis**
 - D. **meiosis**

9. As of 2002, *Voyager 1* is about 12.5 billion km from the Earth and *Voyager 2* is 9.8 billion kms from the Earth. 23 hours for *Voyager 1* and 18 hours for *Voyager 2* is the delayed transmissions communication time ...
 - A. **frame**
 - B. **signal**
 - C. **lag**
 - D. **key**